



US006228163B1

(12) **United States Patent**
Espinoza et al.

(10) **Patent No.: US 6,228,163 B1**
(45) **Date of Patent: May 8, 2001**

(54) **CLAY-FREE READY-MIXED SETTING-TYPE
JOINT COMPOUND**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/474,485**

(22) Filed: **Dec. 29, 1999**

(51) **Int. Cl.⁷** **C04B 28/14**

(52) **U.S. Cl.** **106/778**; 106/772; 106/779;
106/780

(58) **Field of Search** 106/778, 772,
106/779, 780

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(57) **ABSTRACT**

A two part joint compound which sets by hydration of calcium sulfate hemihydrate to gypsum and is clay-free. One part includes an in-situ acidic acrylate copolymer thickener (i.e., an associative thickener) with the calcium sulfate hemihydrate, along with a non-calcium bearing phosphate set preventer. The first part contains water, but remains unset for at least 175 days. The second part includes a set initiator compound having a cation with a log K value greater than calcium ions. The second part is mixed with the first part when setting is desired.

27 Claims, No Drawings